

Name \_\_\_\_\_

# 2020 Summer Math Packet for Incoming Grade 6 Math Students

The math faculty at Shepaug Valley School would like to welcome you to 2020 - 2021 school year! We are looking forward to helping you achieve your greatest potential. We hope a quality education is one thing you will value.

We have developed the attached review packet to help you prepare for the Grade 6 math class you will be taking this fall. This packet includes material that students are expected to understand before beginning the 6th grade curriculum. The topics covered by the packet are the foundational skills necessary to be successful in Grade 6 math. The completed packet will be collected by the teacher the first day of school.

Students may use any resources available to them to complete this packet. Helpful websites include:

[www.purplemath.com](http://www.purplemath.com)

[www.math.com](http://www.math.com)

[www.khanacademy.com](http://www.khanacademy.com)

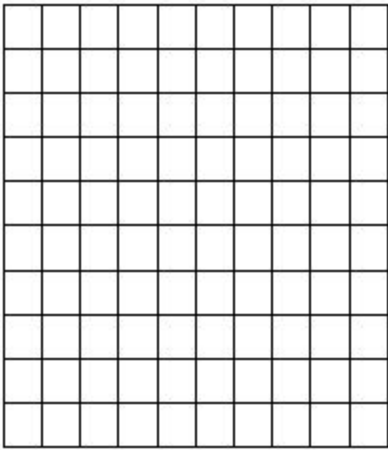
Please spend the time needed to do a quality job on this packet. Show and organize your work for each problem. Write down your calculations and show all of your work!

Enjoy your summer vacation and keep your education moving forward during this break.



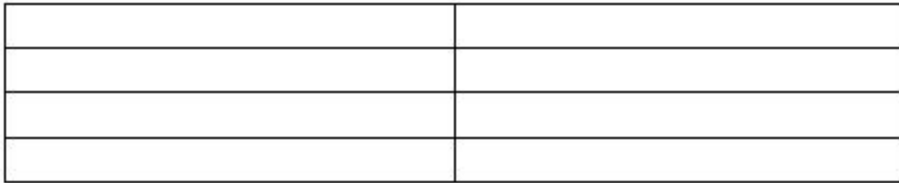
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6. Shade in 0.73.



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7. Shade  $\frac{5}{8}$  of the rectangle.

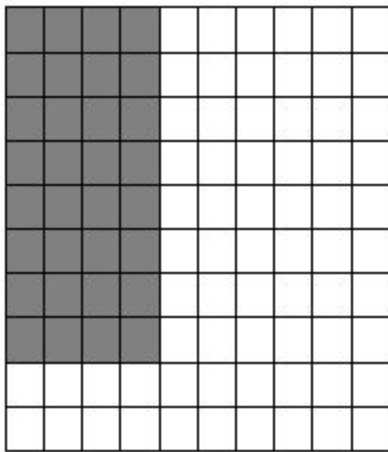


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9. Shade  $\frac{3}{4}$  of the circle.



8. What decimal number is represented by the shaded part?



- a. 0.28      b. 0.30      c. 0.32      d. 0.34
- 

10. Kelly swam in 6 of her 8 swimming meets. Which of the following is another way to describe this?

- a. Kelly swam in  $\frac{1}{4}$  of the meets.      c. Kelly swam in  $\frac{3}{4}$  of the meets.  
b. Kelly swam in  $\frac{1}{3}$  of the meets.      d. Kelly swam in  $\frac{1}{2}$  of the meets.
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11. Which mixed number is equivalent to  $\frac{24}{9}$ ?

- a.  $2\frac{4}{9}$       c.  $2\frac{7}{9}$   
b.  $2\frac{2}{3}$       d.  $3\frac{2}{3}$
-

12. Bill is studying the heights of trees. He made a chart to show their heights.

TREE	HEIGHT (in centimeters)
Maple	45,367
Oak	44,988
Elm	46,578
Sycamore	45,768

Which shows the heights of the trees arranged from TALLEST to SHORTEST?

- a. Maple, Sycamore, Oak, Elm,
  - b. Sycamore, Oak, Elm, Maple
  - c. Oak, Maples, Elm, Sycamore
  - d. Elm, Sycamore, Maple, Oak
- 

13. The chart shows the heights of some of Tina's friends.

FRIEND	HEIGHT (in feet)
Bob	5 $\frac{3}{4}$
Kevin	5 $\frac{7}{8}$
Sam	5 $\frac{1}{2}$
Ralph	5 $\frac{1}{4}$

Which one of Tina's friends is the SHORTEST?

- a. Bob
  - b. Sam
  - c. Kevin
  - d. Ralph
-

14. If Paul collected between 3300 and 4700 stamps for his collection, which could be the amount collected?

- a. 3274                      c. 4770  
b. 3628                      d. 3299
- 

15. Which of the following would be the height of the tallest building?

- a.  $70 \frac{1}{2}$  ft.                      c.  $70 \frac{3}{4}$  ft.  
b.  $70 \frac{7}{8}$  ft.                      d.  $70 \frac{5}{8}$  ft.
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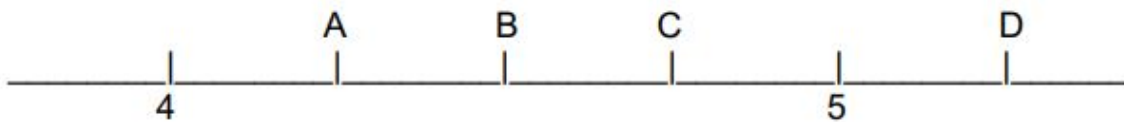
16. There were 6,789 people at a game. This number is ABOUT

- a. 6,000                      c. 7,000  
b. 8,000                      d. 9,000
- 

17. Joe bought 4.3 pounds of beef. This amount rounded to the NEAREST whole number is

- a. 3                              c. 4  
b. 5                              d. 6
- 

18. Which letter represents  $4 \frac{1}{4}$ ?



- a. A                              c. C  
b. B                              d. D
-

19. During inventory a bookstore counted 14 boxes of books. Each box had 12 books. What phrase could be used to find out how many books there were in all of the boxes?

- a. Add 14 and 12
  - b. Subtract 14 and 12
  - c. Multiply 14 by 12
  - d. Divide 14 by 12
- 

20. There are 18 classes of grade 6 students in Danbury, Ct. If there are 20 students per class, how many students are there?

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21. Solve this problem.

$$56 \div 7 =$$

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22.             $\$123.45$   
                  $+ \underline{\$76.89}$

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23. Multiply  $\$40.00 \times 10$
- a. \$ 40.00
  - b. \$ 4000.00
  - c. \$400.00
  - d. \$4.00
- 

24. Solve this problem.  
 $\$7.95 \times 5 =$

25. Solve this problem.

$$\frac{2}{8} + \frac{5}{8} =$$

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26. Bob bought 18 gallons of gasoline. Each gallon cost \$3.50. How much did the gasoline cost in total?

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27. A dozen tickets to the Hillary Duff concert cost \$132.00. If each ticket cost the same amount, what was the cost of a single ticket?

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28. Joy needs to multiply 645 by 67,965. Which of the following would be BEST for Joy to use to ESTIMATE the product?

- a.  $600 \times 70,000$
  - b.  $700 \times 70,000$
  - c.  $600 \times 60,000$
  - d.  $700 \times 60,000$
-



29. To estimate the product of 672 and 583, Kevin used  $700 \times 600$ . Will Kevin's estimate be MORE or LESS than the actual amount?

- a. More, because he rounded both numbers up.
- b. Less, because he rounded both numbers up.
- c. More, because he rounded both numbers down.
- d. Less, because he rounded both numbers down.

30. Maria jogged  $39 \frac{1}{2}$  miles in one week and  $28 \frac{3}{4}$  miles in the second week. ABOUT how many miles did she jog during those two weeks?

- a. A little more than 60 miles
- b. A little less than 60 miles
- c. A little more than 70 miles
- d. A little less than 70 miles

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31. Ashley's softball practice started at 4:15 p.m. It ended at 6:30 p.m. How long was the practice?

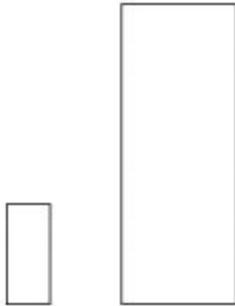
- a. 1 hour 30 minutes
- b. 1 hour 45 minutes
- c. 2 hours 15 minutes
- d. 2 hours 30 minutes

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32. Bill practices piano 40 minutes each day. How many hours does he spend practicing piano in one week?

- a. 3 hours 20 minutes
  - b. 4 hours 20 minutes
  - c. 3 hours 40 minutes
  - d. 4 hours 40 minutes
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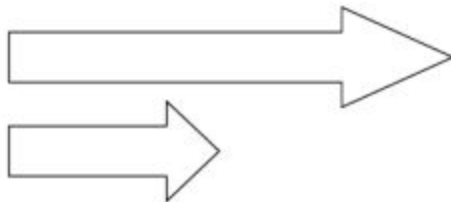
33. If the height of the shorter rectangle is about 4 feet, the height of the taller rectangle is about \_\_\_\_\_.



- a. 3 feet
- b. 6 feet

- c. 12 feet
  - d. 24 feet
- 

34. If the length of the longer arrow is 18 centimeters, the length of the shorter arrow is \_\_\_\_\_.



- a. 15 centimeters
- b. 20 centimeters

- c. 9 centimeters
  - d. 3 centimeters
-

35. The length of line segment AB to the nearest quarter-inch is

- A \_\_\_\_\_ B
- a. 2 inches                      c.  $2 \frac{1}{4}$  inches  
b.  $2 \frac{1}{2}$  inches                  d.  $2 \frac{3}{4}$  inches
- 

36. The length of line segment CD the nearest half-centimeter is

- C \_\_\_\_\_ D
- a. 5 centimeters                  c. 6 centimeters  
b.  $5 \frac{1}{2}$  centimeters              d.  $6 \frac{1}{2}$  centimeters
- 

37. Use your ruler to measure the lengths of each side of this triangle in centimeters. Label the lengths of the sides and determine the PERIMETER of the triangle.



Perimeter: \_\_\_\_\_

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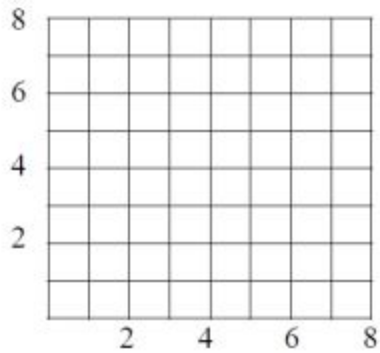
38. Use your ruler to measure the lengths of each side of this rectangle in inches. Label the lengths and determine the AREA of the rectangle.



Area: \_\_\_\_\_

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39. Locate point (3,5) on the grid.



39.

The table below shows the number of books read by four sixth graders during the summer vacation.

**Books Read By Sixth Graders**

<b>Sixth Grader</b>	<b>Number Of Books</b>
Raul	12
Pete	9
Sue	11
Felicia	15

Draw a bar graph to show the same information. Remember to label the axes and include a title. Do not **shade** the bars.

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40.

This table shows the AVERAGE number of customers who get ice cream at Carvel's for each day of the week.

DAY	Average Number of Customers
Monday	193
Tuesday	184
Wednesday	189
Thursday	177
Friday	247

The owner needs to decide which day of the week is the best to schedule an extra person to work. Based on the data, which day would be BEST for the owner to schedule the extra person?

- a) Tuesday
- b) Thursday
- c) Wednesday
- d) Friday